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APR 09 2014

Mr. Michael Stephenson
Senior Scientist
Cameron-Cole, LLC
50 Hegenberger Loop
Oakland, California 94621

RE: EPA Review of DRAFT RCRA Soil Interim Remedial Measure Work Plan
Clean Harbors Wichita Facility, 2549 New York Ave, Wichita, Kansas
RCRA ID # KSD007246846

Dear Mr. Stephenson:

The U.S. Environmental Protection Agency has completed review of the document entitled *DRAFT RCRA Soil Interim Remedial Measure (IRM) Work Plan, Clean Harbors Wichita Facility, 2549 New York Avenue, Wichita, Kansas* dated March 20, 2014. The EPA makes the following comments regarding this work plan:

1. **Section 1.0:** The purpose and benefit of the proposed soil interim remedial measure is not stated. It is the EPA's understanding that the purpose of this IRM is to remove an ongoing source of contamination to ground water under the facility.

2. **Section 1.1, page 2, 2nd paragraph:** This paragraph indicates that Wichita ordinance No. 43-156 does not allow ground water use within the NIC site. Please note that the ordinance only restricts "personal use" of ground water in contaminated areas.

3. **Section 1.3, page 3:** The most recent version (March 2014) of the RSK tier 2 soil to groundwater protection values should be used for the interim action objectives (IAOs).

4. **Section 1.3, page 4:** The EPA notes that if KDHE Tier 2 industrial direct contact values are used as IAOs for the metals instead of residential values, additional controls may be required as part of the final remedy. Based on a cursory review of the data, most, if not all, residential exceedances occur in areas where excavation is already proposed, but a brief discussion of Mercury would need to be added to section 2.2. The EPA recommends using residential direct contact values rather than the industrial direct contact values as the IAOs for metals.

5. **Section 2.1, page 5, 2nd paragraph:** This paragraph states that soil impacts are the result of historic releases from solid waste management unit tanks, pipelines, and surface impoundments. This does not appear to be accurate, since the EPA is unaware of surface impoundments at this facility. Please evaluate this statement and revise if appropriate.

6. **Section 3.1, page 11-12:** It is the EPA's understanding that Figures 9 and 12 are not intended to be used for evaluating building closure activities because they do not reflect the data collected immediately below the concrete floors.

AWMD/WRAP/MIRP/CJ/bft:04/09/14:H:AWMD/WRAP/Cores14/CJ:FinalCommentsDftRCRASoil IRMWP.docx

WRAP	WRAP
Jump CJ	Lininger
04/9/14	04/9/14

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RCRA

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Therefore, when submitting rinsate data and subsurface soil data for regulatory review and determination of disposal or re-use options for the concrete, please include a statement summarizing your interpretation as to whether the data indicates impacts to the concrete.

7. **Section 3.1, page 12, bullet #6:** The closure and partial closure plans require sampling beneath floor cracks and sumps. If there are cracks in the floor of Building J that were not addressed to KDHE's satisfaction by sampling to date, additional sampling or floor removal may be necessary in those areas. Please note, the closure plans require analysis for everything for which the facility is permitted. The proposed closure sampling was postponed due to the presence of VOCs above the IAOs. Therefore, based on the analytical sampling results presented in the draft IRM work plan, sampling for the full suite of compounds required by the closure plan has not been performed. Please propose a sampling plan to address these concerns (see also comment 12 below).

   A cost estimate previously prepared for the Wichita facility listed the following sumps at the facility: 5 sumps located in Building D; 2 sumps located in building B; 1 sump located in Building J; 1 sump located in Building I; and 3 sumps located in the Processing Area. The Analytical data table only indicates one sump area sampled to date, in building D. Please prepare and submit a figure locating these other sumps prior to demolishing the buildings. If these sumps are in areas not currently proposed for excavation, additional sampling will be necessary after the concrete in these areas is removed to determine if excavation is required. (This is not necessary for the sump in building I).

8. **Section 3.2, page 12:** Building locations and key landmarks should be surveyed or otherwise marked prior to building demolition so that boring locations and contaminated areas can be accurately located and excavated as proposed.

9. **Section 3.3, page 14:** State where soil will be taken for offsite treatment or what landfill(s) will be used for disposal of excavated soil. State how soil will be transported.

10. **Section 3.5, page 15:** Imported backfill material must be sampled for total VOCs, SVOCs, and metals. Results must be below the IAOs for use on site.

11. **Section 4, page 16:** Additional confirmation sampling will be necessary for confirming that the soils remaining after excavation are below the IAOs. The following standards must be used to determine the minimum confirmation sampling allowed for the Soil IRM at the Clean Harbors Wichita Facility:

    - **At least one Bottom sample collected per grid unit ≤ 2500 sq. ft.**
      Grid units >2500 must have at least 2 bottom samples collected.

    - **At least one side wall sample collected per 50 linear feet of horizontal side wall.**
      For example: one isolated 2500 sq. ft unit would have at least 4 side wall samples collected (1 per side); or 3 contiguous 2500 sq. ft. units would have a minimum of 8 side wall samples collected.

    - **At least one side wall sample collected per 5 linear feet of vertical side wall.**
      For example: an excavation 1 to 5 feet deep would have one side wall sample collected per 50 linear horizontal feet as described above; however, an excavation 7 feet deep would have 2 vertical side wall samples collected for each 50 linear feet.

- Confirmation samples should be representatively distributed based on the dimensions above, and additional biased confirmation samples should be collected based on staining, odors, changes in soil conditions, unusual excavation footprints, or other factors which may indicate the presence of contamination.

- VOC Confirmation samples must be collected from freshly exposed surfaces and cannot be composited.

12. **Section 4, page 16:** There is no Sampling and Analysis plan (SAP) or Quality Assurance/Quality Control (QA/QC) plan and no reference to existing SAP or QA/QC plans for the collection and analysis of samples associated with this IRM. Necessary details include, but are not limited to, the sampling method and type of confirmation samples that will be collected, sample labeling protocol, and data quality objectives, such as the analytical methods that will be used, the compounds included in those methods and quantitation limits that will be reported, the number and type of QA/QC samples, and the name of the laboratory to which the samples will be submitted. If the samples will be collected and analyzed in accordance with a previously approved document for this site, please provide the reference to that document and discuss any task specific variations in detail. Please note, the SAP and QAPP for the closure plans require analysis of additional compounds not presented in the data results submitted with the IRM work plan.

13. **Section 5, page 16:** The Soil Interim Measure Completion report must also include figures documenting the final lateral and vertical extent of excavation, confirmation sample locations, PID reading locations and values resulting in additional excavation, the location of any stockpiles and descriptions of any variations from the IRM work plan.

14. **Section 6, page 17 and Figure 13:** Please add collection and review of confirmation samples to each phase between excavation and restoration activities. The EPA requests that the draft confirmation sample locations and initial results be submitted to the regulatory agencies for feedback prior to restoration; however, the EPA also understands that, at times, conditions may require backfilling and restoration prior to review/approval of the results by the EPA.

15. **Section 6, page 17:** The IRM work plan does not discuss public involvement. Based on the fact that this IRM may constitute a significant portion of the final site remedy and, based on the fact that there will be a noticeable increase in site activity during implementation of the IRM, EPA believes it is appropriate to provide public notice of the IRM activities. This is not for the intent of soliciting public comment on a proposed interim measure, but rather to keep local government officials and area residents informed as to site activities. The EPA requests that Clean Harbors develop a fact sheet describing the interim measure for distribution to the facility mailing list and interested parties in the immediate site vicinity. The draft fact sheet and mailing list should be submitted to the EPA and KDHE for review. Upon approval by the regulatory agencies, the fact sheet should be distributed to the mailing list. The EPA also recommends that a legal notice regarding the interim measure be placed in the local newspaper. The schedule for these activities should be included on Figure 13.

16. **Figures 9 and 12:** According to Table 3, the excavation area depicted in the central portion of the facility on these figures should be extended south to incorporate boring S11-22 in Building B.

17. **Figures 9 and 12:** The excavation area depicted on the northwest portion of the facility associated with Building C should be extended south to incorporate boring B-105, at a minimum.

The south side of this excavation area is not clearly defined since there is no boring south of B-105 within 50 feet and borings S18-4 and B-106V contain concentrations of PCE just under the IAO (120 ppb).

18. **Figure 10:** Specify the LDR standard used on this figure in the legend.

19. **Figure 13:** Please add an end date to the schedule for each task based on the start date and duration. The EPA understands that these dates will require periodic revision throughout the IRM.

20. **Table 1:** Update this table using the March 2014 KDHE Tier II RSK values.

21. **Table 2:** Revise the IAOs as necessary on this table and include page numbers.

Please submit a response letter and revised figures or tables as necessary to address these comments. It is not necessary to revise the IRM work plan, if comments are addressed sufficiently in the response letter.

If you have any questions about these comments or how to address them, please contact me by phone at (913) 551-7141 or by email at Jump.chris@epa.gov.

Sincerely,

Christine R. Jump, L.G.
U.S. EPA, Region 7
Waste Remediation and Permitting Branch
Air and Waste Management Division

cc: John Cook, KDHE BER
Akhter Hossein, KDHE BWM
Marty Smith, Clean Harbors

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 7
11201 Renner Boulevard
Lenexa, Kansas 66219

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Sincerely,

Christine R. Jump, L.G.
U.S. EPA, Region 7
Waste Remediation and Permitting Branch
Air and Waste Management Division

cc: John Cook, KDHE BER
Akhter Hossein, KDHE BWM
Marty Smith, Clean Harbors